

January 2002

From the Editor. . .

Welcome to our January newsletter, which highlights recent LLNL activities and related upcoming events. We have designed this monthly message as a way to share information with our neighboring community, and we hope that you find it helpful.



University of
California



National Nuclear
Security
Administration



U.S. Department
of Energy

Science 2002 Lecture Series Continues

Dr. Robert Tilling, Chief Scientist for the U.S. Geological Survey's (USGS) Volcano Hazards Team, will be our first Science 2002 lecturer of the new year on Thursday, January 24, at Livermore High School.

SCIENCE 2002 LECTURE SERIES

Dr. Tilling joined the USGS in 1962, and he has been a volcanologist for almost 25 years. He will discuss the many challenges of monitoring and assessing the potential hazards of active volcanoes in the United States and around the world.



Robert Tilling

His talk will begin at 7 p.m. It is free and open to the public.

For more on Dr. Tilling and the Science 2002 Lecture Series go to
<http://www.llnl.gov/lnl/06news/community/lectures.html>

COMMUNITY NEWS

is a
publication
of the
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HOME Campaign Giving Tops \$1.3 million

Laboratory employees raised more than \$1.3 million during the recently completed Helping Others More Effectively (HOME) fund-raising campaign. Now in its 27th year, HOME allows employees to contribute money to local charities and non-profit agencies of their choice through monthly payroll deductions and/or onetime giving.



"We are very pleased with the outcome of this year's campaign," said Laboratory campaign chair Roger Werne. "The HOME campaign proves that anyone can make a difference in someone's life."

With many of our 8,000 employees participating, this campaign marked the fourth consecutive year that the Laboratory has raised more than \$1 million through HOME. For more information on the HOME campaign see **Recent Headlines** below.

NNSA Deputy Administrator Pays A Visit to the Laboratory

The National Nuclear Security Administration's (NNSA) new deputy administrator for Defense Nuclear Nonproliferation Linton Brooks visited the Laboratory last month to learn first-hand about the Laboratory's nonproliferation efforts. He also took in a tour of the Laboratory's Biology & Biotechnology Research Program labs, the Forensic Science Center and the National Atmospheric Release Advisory Center.

Let us hear from you

You can reach Community Relations staff directly.

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"One of the most important things I saw here is this continuum between basic research, which is what you get in the national laboratories, done in an interdisciplinary manner, which can then be focused to a particular problem of proliferation," he stated at the close of his visit.



Linton Brooks (center) gets an overview of the Lab's work in biodetection from AD Wayne Shotts (right) and Fred Milanovich.

Ambassador Brooks, who had a 30-year Naval career, has also served in civilian government positions for the Center for Naval Analysis, the U.S. Arms Control and Disarmament Agency, the State Department, and the National Security Council.

For more on Linton Brooks' time here at the Laboratory see **Recent Headlines** below.

Laboratory Scientists Develop Advanced Cancer Diagnostic Technique

Laboratory scientists have developed a DNA diagnostic technique that is expected to aid cancer diagnosis. The technique will help detect mutations in individual cancer cells. The finding is described in a paper published in the December issue of *Proceedings of the National Academy of Science*.

"Previous DNA testing techniques couldn't easily, or on a routine basis, tell us which molecular changes were present in tumor cells. Now we have the basic techniques to develop tools to improve cancer diagnosis and cancer therapy," stated Jim Tucker, Laboratory biomedical scientist and one of the paper's contributing authors.

For more on this new diagnostic technique see **Recent Headlines** below.

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Laboratory Partners With Keck Observatory on Virtual Guide Star Project

Laboratory scientists, in collaboration with the W.M. Keck Observatory in Hawaii, have created a “virtual” guide star over the island of Hawaii. The guide star system was created using a 20-watt dye laser to illuminate a diffuse layer of sodium atoms existing 60 miles above the earth’s surface. Working with adaptive optics on the Keck II telescope, it is designed to greatly increase the resolution of astronomical objects.



The Keck Observatory in Hawaii.

To learn more about the “virtual” guide star system go to
<http://www.llnl.gov/llnl/06news/NewsReleases/2002/NR-02-01-01.html>

Laboratory Visitors Center and Tours

Please stop by our Visitors Center to learn more about the Laboratory’s mission and programs. The Visitors Center is located on Greenville Road at the Eastgate entrance to the Laboratory. It is open Monday-Friday, 1-4 p.m. For more information about the Visitors Center or tours, please call (925) 422-4599.

Laboratory TV Show

“Technology Today,” a television program designed to help inform our

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neighbors about activities at both Lawrence Livermore and Sandia national laboratories, airs each Monday evening at 8:30 on the Tri-Valley's community television station, Channel 30. If you have a topic that you'd like to see discussed on "Technology Today," please contact us at (925) 422-3138.

Recent Headlines

You may be interested in these recent articles from the Laboratory's weekly newspaper, Newsline. These stories can be viewed by visiting the Public Affairs Website at <http://www.llnl.gov/llnl/06news/Employee/2001index.html>. Call or e-mail us if you would like more information.

- Lab astronomers detect dark matter object in Milky Way (Dec. 7, 2001)
- Large volcanic eruptions mask global warming, scientists report (Dec. 7, 2001)
- New possibilities unveiled in ocean storage of excess power plant emissions (Dec. 14, 2001)
- Laser experiment links Lab to Mt. Diablo (Dec. 14, 2001)
- Construction begun for new Isotope Sciences Facility (Dec. 14, 2001)
- Orbach nominated as director of Office of Science (Dec. 14, 2001)
- NNSA's Brooks lauds partnership in nonproliferation (Dec. 21, 2001)
- Lab physicists named APS fellows (Dec. 21, 2001)
- DNA diagnostic technique provides sharper tool for cancer detection (Dec. 21, 2001)
- NIF construction site sets new record for safety (Dec. 21, 2001)
- HOME Campaign closes at \$1.3 million (Dec. 21, 2001)
- CGSR conference explores the future of deterrence (Dec. 21, 2001)



We Want Your Ideas

Your ideas on how we can improve this newsletter, or our Laboratory programs, are welcomed.

Please forward any comments or questions you may have to Scott Wilson (925) 423-3125, wilson101@llnl.gov.

